th	Contents 7	Reference to last Measurement 8
	IR: 4989	896-00
	IT - 99	798-00.
	Cess - 49	899-00
	CBF. 4	990-00
	FSD - 249	495-00
	LR - 24	679-00
	GST - 44	553-00
	GST - 44	553-00
	Fine - 3	244-00
	dsu: 5212	11-00
	Weqt: 4468	685-00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496520

first and final bill:-

Serial No. Premeasurements

Name of Work Construction of RCC drain ~~From~~ to road opp to To Elumandamma temple Tempapura

Name of Contractor of nature of Agency gramatana in W-7, by Ataarayanapura

Date of commencement of work ↳ M.N.Ramaiah:

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Est cost:-	25.00 lakhs					
	Job code:-	007-18-000076					
	Head of account:-	P-1771					
	A.S.No:-	AS/EE/BTP/321/17-18; dt: 08.10.18					
	T.S.No:-	TS/EE/BTP/11/18-19; dt: 26.07.18					
	Agr NO:-	NO EE/BTP/Agr/100/156/18-19; dt: 25.10.18					
	Work order no:-	NO. BBMP/EE/BTP/WO/56/18-19; dt: 25.10.18					
	Work order amount:-	1222159.80					

MEASUREMENT BOOK

MAIN-BILL:

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item No. 01:-	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 20m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.						
	Qty vide page No. 496521 →					299.70 cum	22777- / 22777200
	At the rate of Rs. 76.0 →						
Item No. 02:-	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms th. well compacted in foundation and plinth, including cost of all materials labour, hire of machinery, curing.,						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	
	Qty vide page	
	At the rate of Rs	
Item No. 03:-	Providing th	
	Straightening, cuttin	
	or welding wherever r	
	to the adjoining me	
	cost of all material	
	Qty vide page	
	At the rate of R	

pth 6	Contents 7	Reference to last Measurement 8
in ordinary soil 2m and an e levelled and to be levelled neatly ications.		22777- 22777200
10 cum		
n-cement concrete of ge graded granite layers not exceeding plinth, including chinery, curing.,		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496526

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Qty vide page no. 496522 → 52.29 cum At the rate of Rs. 4600.00 →						240534.00
	Item No. 03:- Providing TMT steel reinforcement for RCC work including, straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design, cost of all materials, labour, HOM of machinery., Qty vide page no. 496524 → 6.24 tonne At the rate of Rs. 62000.00 →						386880.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 04:- Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts / rectangular slabs / sidewalls polygon in plan including cost of materials, labour complete as per specifications.						
	Qty vide page no 4965/5 →					931.20 Sqm	
	At the rate of Rs 300.00 →						279360.0
	Item No 05:- Providing and laying in position reinforced cement concrete of design mix M30 with OPC cement @ 320 kgs with 20 mm & down size graded granite metal coarse aggregates @ 0.878 cum & fine aggregates @ 0.459 cum with superplasticizers @ 3% confirming to IS 9103. machine mixed, concrete laid in layers						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	not exceeding 15cm th., RCC drain bottom:
	Road joining kurempu
	0-30
	30-60
	60-90
	90-98
	Road opp to [illegible]
	0-30
	30-60
	60-90

OOK

Depth 6	Contents 7	Reference to last Measurement 8
		shuttering, strutting,
		abutments, post and
		ygon in plan including
		es specifications.
		·20 sqm
		279360·0
		reinforced cement concrete
		320kgs with 20mm & down
		ggregates @ 0·878 cum &
		superplasticizers @ 3lt
		, concrete laid in layers

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496527

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	not exceeding 15cm th.,						
	RCC drain- bottom:						
	Road joining kurempu main road:						
	0-30	2	30·0	0·75	0·15	= 6·75	
	30-60	2	30·0	0·75	0·15	= 6·75	
	60-90	2	30·0	0·75	0·15	= 6·75	
	90-98	2	8·0	0·75	0·15	= 1·80	
	Road opp. to elumandamma temple:-						
	0-30	01	30·0	0·75	0·15	= 3·38	
	30-60	01	30·0	0·75	0·15	= 3·38	
	60-90	01	30·0	0·75	0·15	= 3·38	

32·19.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	32.19.	
1	2	3	4	5	6	7	8
	90-120	01	30.0	0.75	0.15	= 3.38	
	120-150	01	30.0	0.75	0.15	= 3.38	
	150-180	01	30.0	0.75	0.15	= 3.38	
	180-192	01	12.0	0.75	0.15	= 1.35	
						43.65 cum	
	Side-Wall:-						
	0-30	2x2=4	30.0	0.15	0.60	= 10.80	
	30-60	2x2=4	30.0	0.15	0.60	= 10.80	
	60-90	2x2=4	30.0	0.15	0.60	= 10.80	
	90-98	2x2=4	8.0	0.15	0.60	= 2.88	
	0-30	1x2=2	30.0	0.15	0.60	= 5.40	
	30-60	1x2=2	30.0	0.15	0.60	= 5.40	
	60-90	1x2=2	30.0	0.15	0.60	= 5.40	
	90-120	1x2=2	30.0	0.15	0.60	= 5.40	
	120-150	1x2=2	30.0	0.15	0.60	= 5.40	
						105.93.	

M.
M

Serial No. .....

Name of Work ..... Fro

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	150-180	1x2 = 2
	180-192	1x2 = 2
	At the rate of Rs.	5800.0
	Item No.07:- Providing and fixing reinforced cement concrete M2 down size including centering machine mixed concrete laid	

Contents	Reference to last Measurement
32.19.	
= 3.38	
= 3.38	
= 3.38	
= 1.35	
43.65 cum	
= 10.80	
= 10.80	
= 10.80	
= 2.88	
= 5.40	
= 5.40	
= 5.40	
= 5.40	
= 5.40	
105.93.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496528

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	105.93.	
1	2	3	4	5	6	7	8
	150-180	1×2 = 2	30.0	0.15	0.60 =	5.40	
	180-192	1×2 = 2	12.0	0.15	0.60 =	2.16	
						69.84 cum	
					Total=	113.49 cum	
	At the rate of Rs. 5800.00						658242.00
	Item No.07:- Providing and fixing 10cms thick precast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm th., well						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	compacted cost of all materials labour curing complete as per specifications:						
	Road joining kavempu road:						
	0-30	97	0.75	0.60	-	= 43.65	
	30-60	97	0.75	0.60	-	= 43.65	
	60-90	98	0.75	0.60	-	= 44.10	
	90-98	30	0.75	0.60	-	= 13.50	
	Road opp to elumandamma temple:						
	0-30	50	0.75	0.60	-	= 22.50	
	30-60	50	0.75	0.60	-	= 22.50	
	60-90	50	0.75	0.60	-	= 22.50	
	90-120	50	0.75	0.60	-	= 22.50	
	120-150	50	0.75	0.60	-	= 22.50	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	150-180
	180-192
	Qty Upto. 2
	At the rate 0
	Item No.06:- Providing and
	1:2:4 with cement @ 240
	metal coarse aggregates
	machine mixed concrete
	compacted, in foundatio

OOK

Depth 6	Contents 7	Reference to last Measurement 8
	curing complete as	
-	= 43.65	
-	= 43.65	
-	= 44.10	
-	= 13.50	
-	= 22.50	
-	= 22.50	
-	= 22.50	
-	= 22.50	
-	= 22.50	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496529

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	150 - 180	50	0.75	0.60	- =	22.50	
	180-192	25	0.75	0.60	- =	11.25	
						291.15 sqm	
	Qty Upto.	291.00 sqm					
	At the rate	of Rs 1925.00 →					560175.00
	Item.No.06:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459 cum, machine mixed concrete laid in layers not exceeding 15 cms, th well compacted, in foundation, plinth and cills including cost of all materials,						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	labour HOM machinery curing complete as per specifications.						
	Road towards kukempu main road:-						
	0-30	2	30.0	0.20	0.10	= 1.20	
	30-60	2	30.0	0.20	0.10	= 1.20	
	60-90	2	30.0	0.20	0.10	= 1.20	
	90-98	2	8.0	0.20	0.10	= 0.32	
	Road opp to elumandamma temple:-						
	0-30	01	30.0	0.20	0.10	= 0.60	
	30-60	01	30.0	0.20	0.10	= 0.60	
	60-90	01	30.0	0.20	0.10	= 0.60	
	90-120	01	30.0	0.30	0.10	= 0.90	
	120-150	01	30.0	0.30	0.10	= 0.90	
	150-180	01	30.0	0.30	0.10	= 0.90	
	180-192	01	12.0	0.30	0.10	= 0.36	
						8.78 cum	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Qty ltd to.
	At the rate
Item No 08:-	Providing and
	At the rate
Item No 09:-	Providing and laying in position ready mix bituminous carpet coat using VG-10 bitumen grade of thickness 25mm using 6mm size aggregate @ 1.0 cum per 100 sqm including tack coat using VG-10 bitumen @ 0.5 kg per sqm complete as per specifications and as directed by Engineer in charge.
	Road towards kukempu main road:-
0-30	2 30.0 0.20 = 12.00
30-60	2 30.0 0.20 = 12.00
60-90	2 30.0 0.20 = 12.00
90-98	2 8.0 0.20 = 3.20
	Road opp to elumandamma temple:-
0-30	01 30.0 0.20 = 6.00
30-60	01 30.0 0.20 = 6.00
60-90	01 30.0 0.20 = 6.00
90-120	01 30.0 0.30 = 9.00
120-150	01 30.0 0.30 = 9.00
150-180	01 30.0 0.30 = 9.00
180-192	01 12.0 0.30 = 3.60
	78.80 sqm

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

th	Contents 7	Reference to last Measurement 8
per	specifications.	
0	= 1·20	
0	= 1·20	
	= 1·20	
6	= 0·32	
10	= 0·60	
10	= 0·60	
0	= 0·60	
10	= 0·90	
10	= 0·90	
10	= 0·90	
10	= 0·36	
	8·78 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 496530

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty ltd to 8.34 cum						
	At the rate of Rs. 5200.00 →						43368.00
Item No 08:-	Providing and fixing MS grating 260x260mm.						
		24	-	-	-	= 24nos	
	At the rate of Rs. 79.00 →						1896.00
Item No 09:-	Assistant Executive Engineer Kodigehalli Sub Division Yelahanka Zone, B.B.M.P. Bangalore						
	Loading and unloading charges:						
	vide item no 01 →					299.70 cum.	
	At the rate of Rs. 96.00 →						28771.20

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
				Total =		2222003.40	
						Abhijith. N.D AE(NT) 20/12/18	

Certificate:

1) Certified that the contractor has done the work satisfactorily.

2) Certified that debris has been removed from work spot.

Abhijith. N.D
AE(NT)

Assistant Exe... 20/12/18 ...er
Kodigehalli Sub ...
Yelahanka Zone, B.B.M.P

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	towards Govt school

Abhijith. N.D
AE(NT)

BOOK

...s		Contents	Reference to last Measurement
...adth 5	Depth 6	7	8
...tal =		2222003·40	
		Abstly. N.D AE(W) 20/12/18	
...one the work satisfactorily.			
...moved from work spot.			
...t Exe... 20/12/18			
...ehalli Sub ...			
...nka Zone, B.C.M.P.			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496531

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						towards coffeeboard layout	
			(6-98m)				
			Main road				
			Cross road				
	towards Govt school					kuvempu layout	
						towards kempapura	

INDEX
RCC-drain

Abstly. N.D AE(W) — Assistant Executive Engineer PWD — Glumandamma temple

...ehalli Sub Division,

MEASUREMENT BOOK

Royalty charges:

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length (Coarse)	Breadth (Fine)	Depth		
1	2	3	4	5	6	7	8
Sl.No.	Details	co-eff	q'ty	co-eff	q'ty.		
01.	40mm → 52.29 cum.	0.96	50.19	0.48	25.09		
05.	M20 → 113.49 cum	0.85	96.46	0.416	47.21		
06.	20mm → 8.34 cum.	0.90	7.50	0.45	5.75		
	Total		154.15		76.05		
	Abstract:-						
1).	Coarse aggregate:	154.15 x 105/cum =			16185.75		
2).	Fine-aggregate:	76.05 x 103/cum =			7833.15		
					24018.90		

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2,22,200/-
ಗಳನ್ನು ಪಾವು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 2,1
ಹಿಂದಾಣಕ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲ
ರೂ. Twenty one Lakh
Six Hundred forty four
ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು

OK

Depth 6	Contents 7	Reference to last Measurement 8
4'4·		
25.09		
47.21		
3.75		
76.05		
5.75		
3.15		
18.90		

M. A. R. 57 (Rule 11

Measurement Book

No. B 496532

Serial No. .....

Name of Work ..... From.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadt 5	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 2222003-00 ಗಳಿಗೆ ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ. 110359-00 ಹಿಂಪಡಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ. Twenty one Lakh eleven thousand five hundred forty four only. ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ ಲೆಕ್ಕಾಧೀಕ್ಷಕರು ಪಾ.ರಾ.ಯುಜ್ಞೆ ವಿಭಾಗ ಸ್ವ. ಮಂ. 29/12 ಕಾ.ಪಾ.ಅ. ಚಾಲಕ ಯುಜ್ಞೆ ವಿಭಾಗ ಸ್ವ.ಮ.ಪಾ 29/12					

Total Rs: 2222003-00

IT-	22220-00
Cess-	22220-00
CBF-	2222-00
LR	24019-00
CGST-	19839-00
SGST-	19839-00
Adjt-	110359-00
Cheque:	21,11,644-00